



COMMUNITY DAY 2004

Environmental Test Engineering and Integration

The Goddard Space Flight Center serves as a national resource for discovery and exploration in Science and Technology. This mission is carried out through the use of scientific instruments, spacecraft, space shuttle attached payloads, sounding rockets, balloons, satellite servicing, and supporting ground systems. To fulfill this mission Goddard maintains the on-site capability to function as a full spectrum end-to-end research and development laboratory. Scientific missions can be carried out from concept, through design, manufacture, test, and operations. Goddard is committed through its strategic institutional goals to maintaining and upgrading the Center's core infrastructure, laboratory facilities, and equipment to preserve the Center's preeminence as a national resource and Center of Excellence. The capabilities provided by the Goddard Environmental Test and Integration Facilities are a key element to realizing this goal.

The Goddard Environmental Test and Integration Facilities are managed by the Applied Engineering and Technology Directorate's Mechanical Systems Division to provide environmental test capability that ensures spacecraft and flight experiments will withstand the rigors of launch and will operate properly in the space environment. Integration and test programs also have the long-range goals of advancing the state-of-the-art of environmental testing and aiding in the development of improved space flight systems. The Goddard Environmental Test and Integration Facilities are one of the most complete and comprehensive complexes within the United States Government.

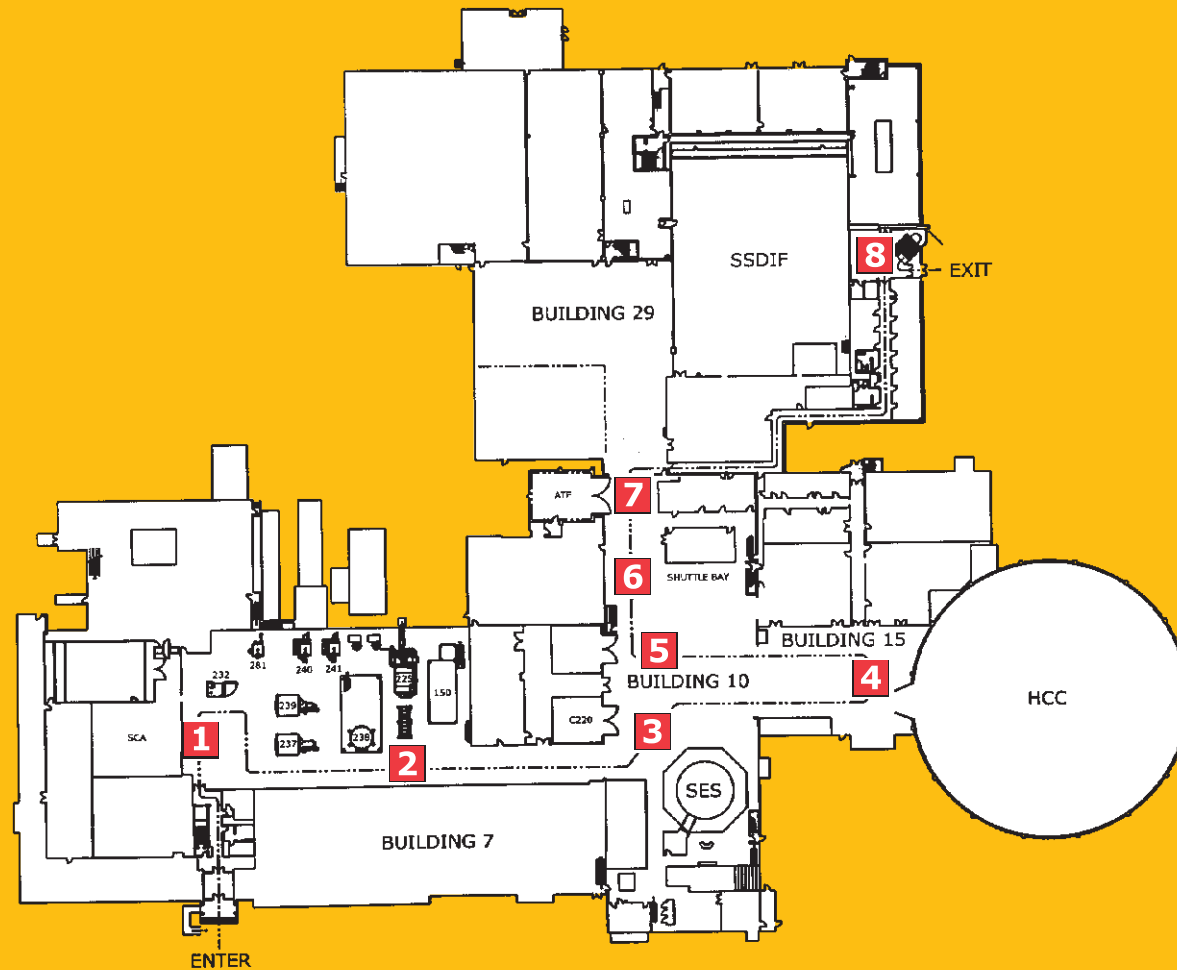
NASA-GODDARD SPACE FLIGHT CENTER



Welcome to the Environmental
Test Engineering
and Integration Complex



STATION DESCRIPTIONS



- 1** Electromagnetic Interference (EMI) – Demonstration
- 2** Thermal Vacuum (T/V) –Liquid Nitrogen (LN2) and Vacuum Demonstrations
- 3** Space Environment Simulator (SES) – Large Thermal Vacuum Chamber
- 4** High Capacity Centrifuge (HCC) – Demonstration and Video
- 5** Vibration Facility – Demonstration
- 6** Multi-Layered Insulation (MLI) Blanketing
- 7** Reverberant Acoustic Chamber – Demonstration
- 8** Spacecraft Systems Development and Integration Facility (SSDIF) – Largest Cleanroom in the World